

### Features

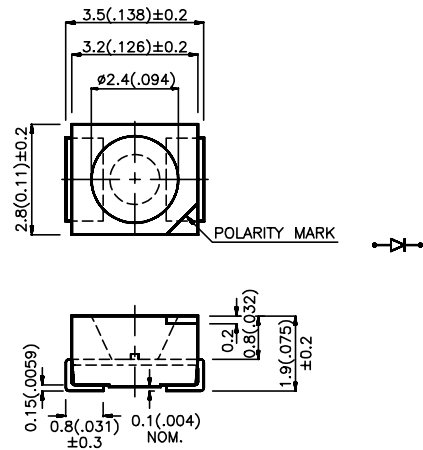
- HIGH EFFICIENCY.
- WHITE EMISSION, HIGH LUMINOUS INTENSITY.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDERING PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.

AA3528PWC

### Package Dimensions

### Description

The Blue source color devices are made with InGaN on SiC Light Emitting Diode.



### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.1 (0.004)$  unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subjected to change without notice.

### Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2 $\theta$ 1/2
AA3528PWC	WHITE (InGaN)	WATER CLEAR	30	55	120°

### Note:

1.  $\theta 1/2$  is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

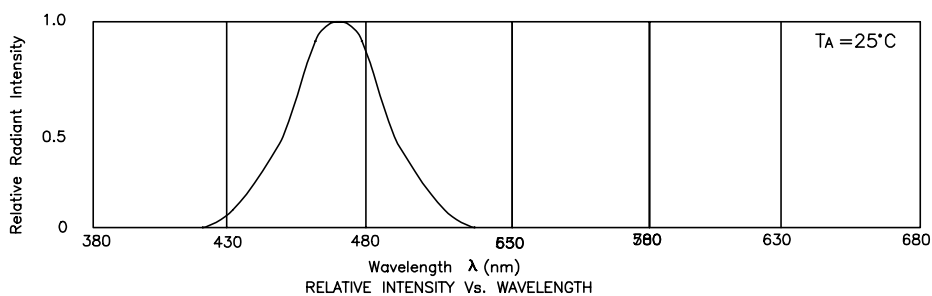
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
V <sub>F</sub>	Forward Voltage	White	3.6	4.0	V	IF=20mA
I <sub>R</sub>	Reverse Current	White	10		uA	VR = 5V
X	Chromaticity Coordinates	White	0.31			
Y			0.32			

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

Parameter	White	Units
Power dissipation	120	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating Temperature	-30 °C To + 80 °C	
Storage Temperature	-40 °C To + 100 °C	
Lead Soldering Temperature [2]	260 °C For 5 Seconds	

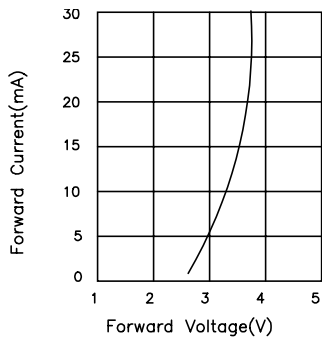
Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.

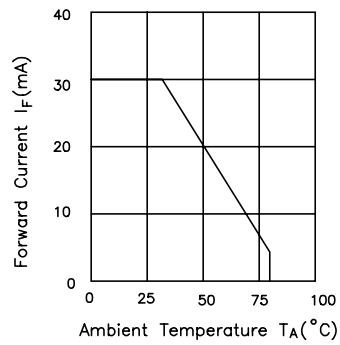


# Kingbright®

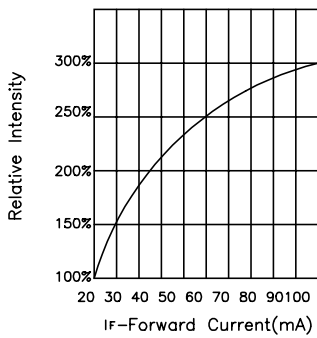
## Blue AA3528PWC



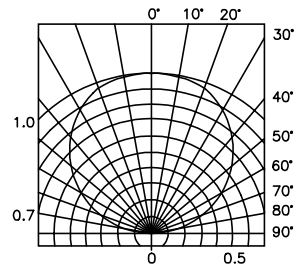
FORWARD CURRENT Vs. FORWARD VOLTAGE



FORWARD CURRENT DERATING CURVE

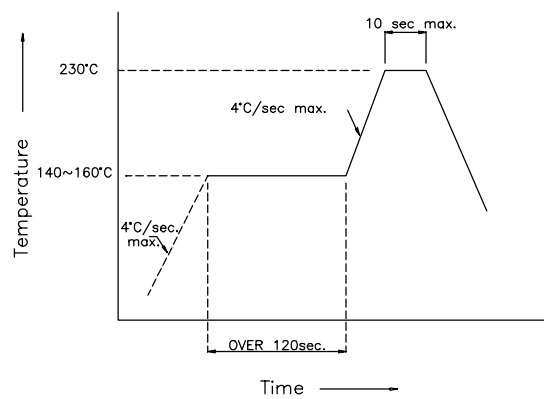


RELATIVE INTENSITY Vs. FORWARD CURRENT

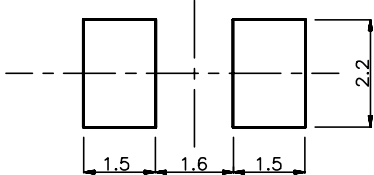


SPATIAL DISTRIBUTION

## AA3528PWC Reflow Soldering Instructions



## AA3528PWC Recommended Soldering Pattern (Units : mm)



## AA3528PWC Tape Specifications (Units : mm)

